(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 29 September 2005 (29.09.2005)

PCT

(10) International Publication Number WO 2005/090495 A1

(51) International Patent Classification⁷: C09D 11/00, B41J 2/01, B41M 5/00

(21) International Application Number:

PCT/JP2005/005445

(22) International Filing Date: 17 March 2005 (17.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2004-080332 19 March 2004 (19.03.2004) Л 2005-049309 24 February 2005 (24.02.2005) Л

(71) Applicant (for all designated States except US): Ricoh Company, Ltd. [JP/JP]; 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo, 1438555 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NAMBA, Michihiko [JP/JP]; 770-63, Yabe-cho, Totsuka-ku, Yokohama-shi,

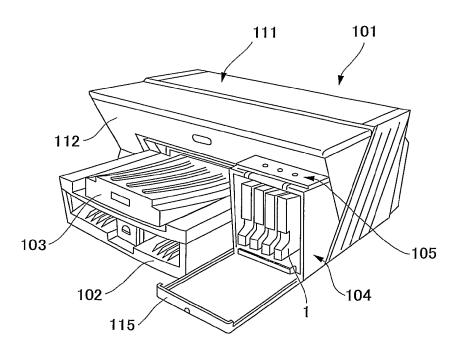
Kanagawa, 2440002 (JP). HABASHI, Hisashi [JP/JP]; Nibankan 306, Center Hills 21, 850-1, Ishida, Isehara-shi, Kanagawa, 2591116 (JP). KOJIMA, Mariko [JP/JP]; Gran Durie Komae 203, 1-2-10, Izumihon-cho, Komae-shi, Tokyo, 2010003 (JP). INOUE, Tomohiro [JP/JP]; 16-15-203, Oomaru, Tsuzuki-ku, Yokohama-shi, Kanagawa, 2240061 (JP). BANNAI, Akiko [JP/JP]; Grand Stage Omori 405, 4-6-6, Omorinishi, Ohta-ku, Tokyo, 1430015 (JP). GOTOH, Akihiko [JP/JP]; Bon Maison Honatsugi 701, 3-14-8, Naka-cho, Atsugi-shi, Kanagawa, 2430018 (JP). NAGAI, Kiyofumi [JP/JP]; Fine Hill Village 102, 2212-1, Naruse, Machida-shi, Tokyo, 1940044 (JP).

(74) Agent: HIROTA, Koichi; HIROTA, NAGARE & AS-SOCIATES, 8th Floor, Miyata Bldg., 1-38-2, Yoyogi, Shibuya-ku, Tokyo 1510053 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,

[Continued on next page]

(54) Title: RECORDING INK, INK CARTRIDGE, INK RECORD, INKJET RECORDING APPARATUS AND INKJET RECORDING PROCESS



(57) Abstract: The object of the present invention is to provide a recording ink which is excellent in color developing properties, has a high delivery stability, can improve remarkably color saturation and can form a high-quality image, when the ink is used for printing a plain paper, further an ink cartridge, an ink record, an inkjet recording apparatus and an inkjet recording process.

WO 2005/090495 A1

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.